Application No.: 10/658,236 Docket No.: UC0013USNA

Listing of Claims

1. (Previously Presented) An organic electronic device comprising a first electrode, a second electrode, and an organic active layer, wherein:

the first electrode lies on an opposite side of the organic active layer compared to the second electrode; and

at least one layer selected from the first electrode, the second electrode, a hole-transport layer, an electron-transport layer, and the organic active layer, wherein the at least one layer has a range of thicknesses between thickness d_1 and thickness d_2 to achieve $L_{background}$ of 30 % or less of incident ambient light, wherein d_1 and d_2 are determined by:

$$2\eta d_1 \left[\cos(\theta) + \cos(\phi)\right] = (m+1/4)\lambda$$
 (Equation 1)
$$2\eta d_2 \left[\cos(\theta) + \cos(\phi)\right] = (m+3/4)\lambda$$
 (Equation 2)

wherein:

 η is a refractive index of a material of the at least one layer at a specific wavelength (λ);

 d_1 is a first thickness of the at least one layer;

d₂ is a second thickness of the at least one layer;

 θ is an angle of incident radiation;

 ϕ is a total phase change of radiation reflected by an ideal reflector at λ , and can be expressed as $\Delta\phi(\lambda/2\pi)$;

m is an integer; and

 λ is the specific wavelength.

- 2. (Canceled)
- 3. (Canceled)
- 4. (Canceled)
- 5. (Previously Presented) An organic electronic device comprising:

an organic active layer; and

a first electrode having a side opposite the organic active layer, wherein:

the first electrode comprises a first electrode layer lying at the side opposite the organic active layer; and

the first electrode layer has a range of thicknesses between thickness d_1 and thickness d_2 to achieve $L_{background}$ of 30 % or less of incident ambient light, wherein d_1 and d_2 are determined by:

$$2\eta d_1 \left[\cos(\theta) + \cos(\phi)\right] = (m+1/4)\lambda \tag{Equation 1}$$

$$2\eta d_2 \left[\cos(\theta) + \cos(\phi)\right] = (m+3/4)\lambda \tag{Equation 2}$$
 wherein:

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 η is a refractive index of a material of the first electrode layer at a specific wavelength (λ);

- d₁ is a first thickness of the first electrode layer;
- d₂ is a second thickness of the first electrode layer;
- θ is an angle of incident radiation;
- ϕ is a total phase change of radiation reflected by an ideal reflector at λ , and can be expressed as $\Delta\phi(\lambda/2\pi)$;

m is an integer; and

- λ is the specific wavelength.
- 6. (Previously Presented) The organic electronic device of claim 5, further comprising a second electrode, wherein:

the organic active layer lies between the first electrode and the second electrode;

a second electrode has a side opposite the organic active layer; and

the second electrode comprises a second electrode layer lying at the side opposite the organic active layer; and

wherein the second electrode layer has a thickness to achieve $L_{background}$ of 30 % or less of incident ambient light.

- 7. (Canceled)
- 8. (Canceled)
- 9. (Canceled)
- 10. (Previously Presented) The organic electronic device of claim 5, wherein an interfacial reflectivity is no greater than about 30 percent, wherein the interfacial reflectivity is determined by:

$$R = \frac{I_{reflected}}{I_{incident}} = \left(\frac{\eta_x - \eta_y}{\eta_x + \eta_y}\right)^2$$
 (Equation 3)

wherein:

 η_x is a refractive index of the first electrode layer; and

 η_{y} is a refractive index of a material lying immediately adjacent to the first electrode layer.

- 11. (Previously Presented) The organic electronic device of claim 5, wherein the first electrode layer comprises a metal selected from a transition metal and an elemental metal.
- 12. (Original) The organic electronic device or process of claim 11, wherein the metal is selected from a group consisting of Au, Cr, Si, and Ta.
- 13. (Original) The organic electronic device or process of claim 11, wherein the first electrode layer further comprises an oxide of the metal.

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- 14. (Canceled)
- 15. (Canceled)
- 16. (Canceled)
- 17. (Canceled)
- 18. (Canceled)
- 19. (Previously Presented) The organic electronic device of claim 1 wherein the organic electronic device is selected from the group of light-emitting displays, radiation sensitive devices, photoconductive cells, photoresistors, photoswitches, photodetectors, phototransistors, and phototubes.
- 20. (Previously Presented) The organic electronic device of claim 5 wherein the organic electronic device is selected from the group of light-emitting displays, radiation sensitive devices, photoconductive cells, photoresistors, photoswitches, photodetectors, phototransistors, and phototubes.